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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/784,694	02/15/2001	Brian Keith Martin	RSW920010011US1	3157
25259	7590	06/04/2004	EXAMINER	
IBM CORPORATION 3039 CORNWALLIS RD. DEPT. T81 / B503, PO BOX 12195 REASEARCH TRIANGLE PARK, NC 27709			EL CHANTI, HUSSEIN A	
			ART UNIT	PAPER NUMBER
			2157	2
DATE MAILED: 06/04/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/784,694	Applicant(s) MARTIN ET AL.	
	Examiner Hussein A El-chanti	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to application filed on Feb. 15, 2001. Claims 1-42 are pending examination.

Specification

2. The abstract of the disclosure is objected to because of minor informalities:
The abstract has a type error "is are" on the 6th line. Correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-15 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muthuswamy et al., U.S. Patent No. 6,606,525 (referred to hereafter as Muthuswamy) in view of Miller et al., U.S. Patent No. 6,523,063 (referred to hereafter as Miller).

As to claims 1 and 29, Muthuswamy teaches a method and a computer program product in a data processing system for specifying a cache policy for caching pages which include dynamic content, said method comprising the steps of:

permitting a user to request one of said pages to be displayed, said one of said pages including a plurality of fragments (see col. 3 lines 1-17);

executing an application which includes a plurality of fragments, each one of said plurality of fragments being unchanged by said caching policy (see col. 3 lines 36-60);
and

processing caching of said one of said pages separately from said application
(see col. 3 lines 36-60).

Muthuswamy does not explicitly teach application includes a plurality of servlets". However Miller teaches a method of loading static and dynamic data on a webpage with a servlet that receives HTTP requests from clients and translates the information using predefined schemes into human viewable images that are encoded in a format compatible with known web browsers (see col. 8 lines 15-30).

It would have been obvious for one of the ordinary skill in the art at the time of the invention to modify Muthuswamy by incorporating a plurality of servlets to respond to requests by users as taught by Miller because servlets and applets allow the server and client to be extended in a modular way by dynamically loading code which communicates with the main program via a standard programming interface.

As to claim 2, Muthuswamy teaches the method according to claim 1, further comprising the steps of processing caching of each of said plurality of fragments separately from said application (see col. 3 lines 36-60).

As to claim 3, Muthuswamy teaches the method according to claim 1, wherein the step of processing caching further comprises the steps of:

responding to internal cache requests; and

responding to external cache requests (see col. 3).

As to claim 4, Muthuswamy teaches the method according to claim 1, further comprising the step of processing caching of said one of said pages within an application server included within said computer system (see col. 3).

As to claim 5, Muthuswamy teaches the method according to claim 4, further comprising the steps of:

responding to internal cache requests, said internal cache requests being generated within said application server; and

responding to external cache requests, said external cache requests being generated outside said application server (see col. 3).

As to claim 6, Muthuswamy teaches the method according to claim 1, wherein the step of processing caching of said one of said pages further comprises the steps of:

receiving a request to display one of said plurality of fragments;

determining one of plurality of fragments associated with said one of said plurality of fragments; and

executing said one of said plurality of fragments, wherein said execution of said one of said plurality of fragments generates a displayable output (see col. 3 lines 49-col. 4 lines 20).

As to claim 7, Muthuswamy teaches the method according to claim further comprising the steps of:

in response to a first request to display said one of said plurality of fragments, creating a cache entry including said output;

creating a cache entry identifier for identifying said cache entry utilizing a user identifier which identifies said user and caching options specified for said one of said plurality of fragments (see col. 3).

As to claim 8, Muthuswamy teaches the method according to claim 7, further comprising the steps of:

- creating said one of said plurality fragments;
- specifying said cache options for said one of said plurality of fragments; and
- creating a fragment element for said fragment utilizing a fragment identifier and an indication of said specified cache options, wherein said fragment element is associated with said fragment (see col. 3).

As to claim 9, Muthuswamy teaches the method according to claim 8, further comprising the steps of:

- storing said fragment; and
- storing said specification of said fragment options with said fragment (see col. 3 lines 19-35).

As to claim 10, Muthuswamy teaches the method according to claim 8, further comprising the steps of:

- receiving a request to display said fragment element;
- determining whether any cache entry is identified by said cache identifier;
- in response to a determination that no cache entry is identified by said cache identifier:
- retrieving said fragment associated with said fragment element;

providing said user identifier to said fragment; executing said fragment utilizing said user identifier generating an output;
storing said output as a cache entry;
identifying said cache entry utilizing said cache identifier; and
returning said cache entry to said user, wherein said output is displayed (see col. 3-col. 4).

As to claim 11, Muthuswamy teaches the method according to claim 8, further comprising the steps of:

receiving a request to display said fragment element;
determining whether any cache entry is identified by said cache identifier;
in response to a determination that a cache entry exists which is identified by said cache identifier,
returning said cache entry to said user, wherein said output is displayed (see col. 3 lines 49-col. 4 lines 20).

As to claim 12, Muthuswamy teaches the method according to claim 6, further comprising the step of outputting said cache entry, wherein said one of said plurality of fragments is displayed (see col. 3 lines 49-col. 4 lines 20).

As to claim 13, Muthuswamy teaches the method according to claim 6, further comprising the step of in response to subsequent requests to display said one of said plurality of fragments, retrieving said cache entry utilizing said cache identifier (see col. 3).

As to claim 14, Muthuswamy teaches the method according to claim 13, further comprising the step of outputting said cache entry, wherein said one of said plurality of fragments is displayed (see col. 3 lines 49-col. 4 lines 20).

As to claim 15, Muthuswamy teaches a data processing system for specifying a cache policy for caching pages which include dynamic content, comprising:

said data processing system for executing an application which includes a plurality of fragments, each one of said plurality of fragments being executed to present a different one of a plurality of fragments included within a page, each one of said plurality of fragments being unchanged by said caching policy; and

said data processing system for processing caching of said one of said pages separately from said application (see col. 3-col. 4).

Muthuswamy does not explicitly teach application includes a plurality of servlets". However Miller teaches a method of loading static and dynamic data on a webpage with a servlet that receives HTTP requests from clients and translates the information using predefined schemes into human viewable images that are encoded in a format compatible with known web browsers (see col. 8 lines 15-30).

It would have been obvious for one of the ordinary skill in the art at the time of the invention to modify Muthuswamy by incorporating a plurality of servlets to respond to requests by users as taught by Miller because servlets and applets allow the server and client to be extended in a modular way by dynamically loading code which communicates with the main program via a standard programming interface.

4. Claims 16-28 and 30-42 do not teach or define any additional limitation over claims 1-15 and therefore are rejected for similar reasons.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Method And Apparatus For Navigation of Relational Databases On Distributed Networks by Tsai, U.S. Patent No. 6,701,321
- Method And System For Generating Materials For Presentation On A Non-Frame Capable Web Browser by Nakamura et al., U.S. Patent No. 6,275,833
- System And Method For Providing A Dynamic Advertising Content Window Within A Window Based Content Manifestation Environment Provided In A Browser by Pasaquali, U.S. Patent No. 6,321,209

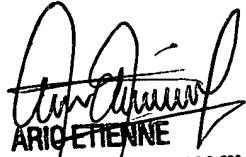
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hussein A El-chanti whose telephone number is (703)305-4652. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703)308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hussein El-chanti

May 27, 2004


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